

Jan Delaval please

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110640

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Sakiba Ozy Examiner #: 74141 Date: 12/16/03  
Art Unit: 1616 Phone Number 305-3910 Serial Number: 09/779,331  
Mail Box and Bldg/Room Location: 2219 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Anti-angiogenic agents See 09/939,268

Inventors (please provide full names): AGOSTON, et al  
Full name (Gregory E. Agoston)

Earliest Priority Filing Date: 2/8/2004

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search for the Steroids I

Cl 11.  
If no hits then search for Cl 1.  
Cl 11 is more limited at Ra, Rb, Ro  
Z', Rge(14) O, 14  
Rm is

Thank you

### STAFF USE ONLY

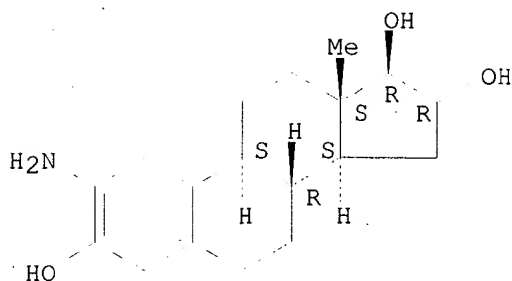
Searcher: Jan  
Searcher Phone #: 4495  
Searcher Location: 12/21/03  
Date Searcher Picked Up: 12/16  
Date Completed: 20  
Searcher Prep & Review Time: 430  
Clerical Prep Time: 430  
Online Time: 430

### Type of Search

NA Sequence (#) ✓  
AA Sequence (#) ✓  
Structure (#) ✓  
Bibliographic ✓  
Litigation ✓  
Fulltext ✓  
Patent Family ✓  
Other ✓

### Vendors and cost where applicable

STN ✓  
Dialog ✓  
Questel/Orbit ✓  
Dr.Link ✓  
Lexis/Nexis ✓  
Sequence Systems ✓  
WWW/Internet ✓  
Other (specify) ✓



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 100:68583

=> => fil uspatall

FILE 'USPATFULL' ENTERED AT 11:26:30 ON 21 DEC 2003  
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 11:26:30 ON 21 DEC 2003  
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> d 119 bib abs hitstr

L19 ANSWER 1 OF 1 USPATFULL on STN

AN 1999:143299 USPATFULL

TI Selective denial of encrypted high precision data by indirect keying

IN Clark, James Monroe, Verona, NJ, United States

PA ITT Corporation, New York, NY, United States (U.S. corporation)

PI US 5982897 19991109

AI US 1998-95623 19980610 (9)

RLI Continuation of Ser. No. US 1995-429519, filed on 26 Apr 1995, now abandoned

DT Utility

FS Granted

EXNAM Primary Examiner: Hayes, Gail O.; Assistant Examiner: Sayadian, Hrayr A.

LREP Plevy, Arthur L.

CLMN Number of Claims: 24

ECL Exemplary Claim: 21

DRWN 4 Drawing Figure(s); 3 Drawing Page(s)

LN.CNT 655

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB. High precision transmitted navigational data as encrypted data transmitted by global positioning (GPS) satellites is made unavailable in regions designated as hostile and during desired intervals, while allowing the data to be available outside the hostile region. All satellites in the GPS constellation transmit the high precision navigational data in encrypted form. However, only the satellites that are not visible to the hostile region transmit the periodic key necessary to decrypt the data. The periodic key changes after a predetermined time interval. During a given time interval the same key value is used by all satellites for encryption of the high precision navigational data. A receiver can obtain the current periodic key from any visible satellite which is transmitting the periodic key. This key is then used to decrypt the high precision navigational data from that satellite and all other visible satellites. As a result, users in the

hostile region are denied access to the high precision navigational data because they are unable to obtain the periodic key necessary to decrypt the data.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

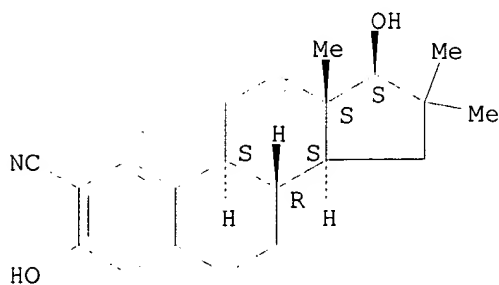
IT 258278-72-7P, EM 1926

(preparation of steroids as inhibitors of type 3 3 $\alpha$ -hydroxysteroid dehydrogenase)

RN 258278-72-7 USPATFULL

CN Estra-1,3,5(10)-triene-2-carbonitrile, 3,17-dihydroxy-16,16-dimethyl-, (17 $\beta$ )- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 11:26:39 ON 21 DEC 2003

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FILE COVERS 1907 - 21 Dec 2003 VOL 139 ISS 26

FILE LAST UPDATED: 19 Dec 2003 (20031219/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d all hitstr tot 131

L31 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2000:116882 HCAPLUS

DN 132:152024

ED Entered STN: 18 Feb 2000

TI Preparation of steroids as inhibitors of type 3 3 $\alpha$ -hydroxysteroid dehydrogenase

IN Labrie, Fernand; Merand, Yves; Gauthier, Sylvain; Provencher, Louis; Luu-The, Van

PA Endorecherche, Inc., Can.

greater aromatic hydroxylation but the catecholesterogen was O-methylated to a greater relative extent. The 16 $\beta$ -17 $\beta$  derivative underwent alicyclic as well as substantial aromatic hydroxylation and yielded numerous isomeric glucuronides of O-methylated catechols. Thus, the fluorine exerted complex effects (inhibitory and enhancing) on both localized (D-ring) and distal (A-ring) biotransformations of the estradiol mol.; the direction and magnitude of the effects being dependent upon the stereochem. at C-16 and C-17. These findings provide structural guidelines for restricting the metabolism of tumor-imaging fluoroestrogens and thereby enhancing their delivery to the target tissue.

ST fluoroestradiol prepn metab estrogen receptor imaging

IT Drug metabolism

Imaging agents

Structure-activity relationship

Substituent effects

(metabolism of 16-fluoroestradiols in vivo: chemical strategies for restricting oxidative biotransformations of estrogen-receptor imaging agent)

IT Estrogen receptors

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(metabolism of 16-fluoroestradiols in vivo: chemical strategies for restricting oxidative biotransformations of estrogen-receptor imaging agent)

IT 84693-92-5P 92817-10-2P 92817-11-3P 202397-89-5P 202397-90-8P  
202397-91-9P

RL: BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process)

(metabolism of 16-fluoroestradiols in vivo: chemical strategies for restricting oxidative biotransformations of estrogen-receptor imaging agent)

IT 202397-92-0 202397-93-1 202397-94-2 202397-95-3  
202397-96-4 202397-97-5 202397-98-6 202397-99-7  
202398-00-3 202398-01-4 202398-02-5 202398-03-6 202398-04-7  
202398-05-8 202398-06-9 202398-07-0 202398-08-1  
202398-09-2

RL: BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)

(metabolism of 16-fluoroestradiols in vivo: chemical strategies for restricting oxidative biotransformations of estrogen-receptor imaging agent)

IT 53-16-7, Estrone, reactions 3459-26-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(metabolism of 16-fluoroestradiols in vivo: chemical strategies for restricting oxidative biotransformations of estrogen-receptor imaging agent)

IT 130409-74-4P 130409-84-6P 202397-83-9P 202397-84-0P 202397-85-1P  
202397-86-2P 202397-87-3P 202397-88-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(metabolism of 16-fluoroestradiols in vivo: chemical strategies for restricting oxidative biotransformations of estrogen-receptor imaging agent)

RE.CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

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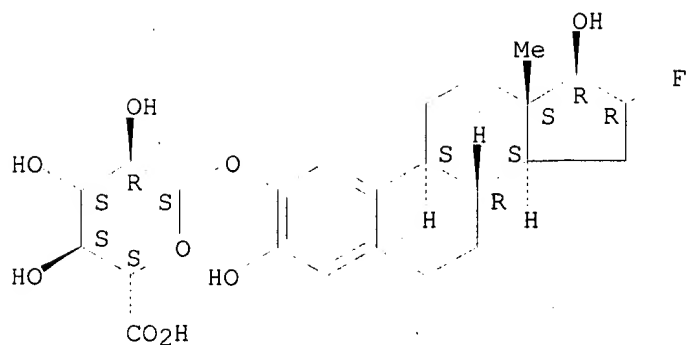
IT 202397-95-3 202397-99-7 202398-05-8

RL: BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)  
(metabolism of 16-fluoroestradiols in vivo: chemical strategies for restricting oxidative biotransformations of estrogen-receptor imaging agent)

RN 202397-95-3 HCAPLUS

CN  $\beta$ -D-Glucopyranosiduronic acid, (16 $\alpha$ ,17 $\beta$ )-16-fluoro-3,17-dihydroxyestra-1,3,5(10)-trien-2-yl (9CI) (CA INDEX NAME)

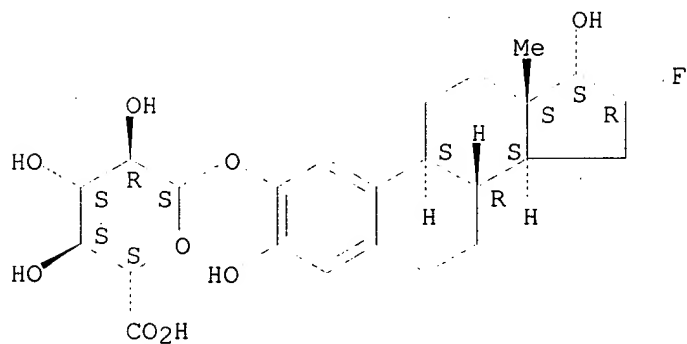
Absolute stereochemistry.



RN 202397-99-7 HCAPLUS

CN β-D-Glucopyranosiduronic acid, (16α,17α)-16-fluoro-3,17-dihydroxyestra-1,3,5(10)-trien-2-yl (9CI) (CA INDEX NAME)

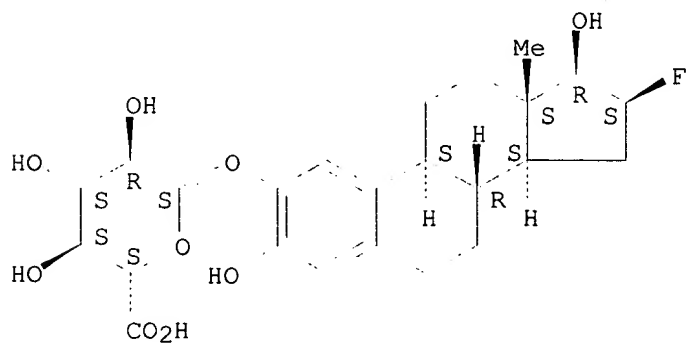
Absolute stereochemistry.



RN 202398-05-8 HCAPLUS

CN β-D-Glucopyranosiduronic acid, (16β,17β)-16-fluoro-3,17-dihydroxyestra-1,3,5(10)-trien-2-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L31 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1991:43278 HCAPLUS

DN 114:43278

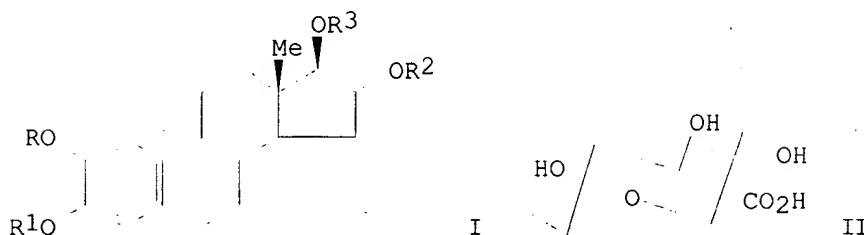
ED Entered STN: 09 Feb 1991

TI Synthesis of 2-hydroxyestriol monoglucuronides and monosulfates

AU Ohkubo, Tadashi; Wakasawa, Tatsuyoshi; Nambara, Toshio

CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan

SO Steroids (1990), 55(3), 128-32  
 CODEN: STEDAM; ISSN: 0039-128X  
 DT Journal  
 LA English  
 CC 32-3 (Steroids)  
 OS CASREACT 114:43278  
 GI



- AB The ring A monoglucuronides I ( $R = R_2 = R_3 = H$ ,  $R_1 = II$ ;  $R = II$ ,  $R_1 = R_2 = R_3 = H$ ) and monosulfates I ( $R = SO_3H$ ,  $R_1 = R_2 = R_3 = H$ ;  $R_1 = SO_3H$ ,  $R = R_2 = R_3 = H$ ) of 2-hydroxyestriol were synthesized from 2-hydroxyestriol 16,17-diacetate I ( $R = R_1 = H$ ,  $R_2 = R_3 = Ac$ ) by means of the Koenigs-Knorr reaction with Me  $\alpha$ -acetobromoglucuronate and sulfation with sulfur trioxide-pyridine complex, resp., followed by deacetylation. The configuration of these compds. were definitely established by conversion to 2-hydroxyestriol monomethyl esters by methylation, then enzymic hydrolysis. The ring D monoglucuronides I ( $R = R_1 = R_2 = H$ ,  $R_3 = II$ ;  $R = R_1 = R_3 = H$ ,  $R_2 = II$ ) and monosulfates I ( $R = R_1 = R_2 = H$ ,  $R_3 = SO_3H$ ;  $R = R_1 = R_3 = H$ ,  $R_2 = SO_3H$ ) of 2-hydroxyestriol were also prepared from 2-hydroxyestriol, 2,3-dibenzyl ether I ( $R = R_1 = CH_2Ph$ ,  $R_2 = R_3 = H$ ) by glucuronidation and sulfation in a similar fashion followed by debenzylation. The positions of conjugation were established on the basis of their  $^1H$ -NMR spectral data.
- ST hydroxyestriol monoglucuronide monosulfate  
 IT Steroids, compounds  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (hydroxy, monoglucuronides and monosulfates of hydroxyestriol, preparation of)
- IT 21085-72-3  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (condensation of, with hydroxyestriol diacetate)
- IT 111162-88-0  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (conversion to monoglucuronide or monosulfate)
- IT 131429-39-5P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and conversion to monoglucuronide and monosulfates)
- IT 116382-65-1P 131429-36-2P 131429-37-3P 131429-38-4P 131429-40-8P  
 131429-41-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and deacetylation of)
- IT 131429-42-0P 131429-43-1P 131429-44-2P 131429-45-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and debenzylation of)
- IT 55349-20-7P 55349-21-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and enzymic hydrolysis of)
- IT 1236-72-2P 28818-82-8P 55349-18-3P 82356-49-8P 125529-47-7P

125529-48-8P 125529-49-9P 125549-03-3P 131435-34-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

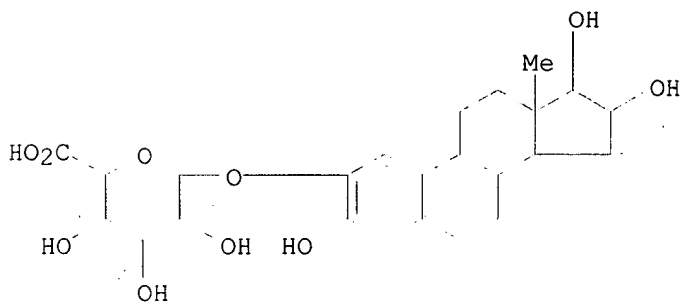
IT 55349-22-9 125529-46-6

RL: RCT (Reactant); RACT (Reactant or reagent)  
(sequential methylation and alkaline hydrolysis of)

IT 55349-22-9

RL: RCT (Reactant); RACT (Reactant or reagent)  
(sequential methylation and alkaline hydrolysis of)

RN 55349-22-9 HCAPLUS

CN  $\beta$ -D-Glucopyranosiduronic acid, (16 $\alpha$ ,17 $\beta$ )-3,16,17-  
trihydroxyestra-1,3,5(10)-trien-2-yl (9CI) (CA INDEX NAME)

L31 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1991:722 HCAPLUS

DN 114:722

ED Entered STN: 12 Jan 1991

TI Multiplicity of in vitro glucuronidation of 2-hydroxyestriol

AU Ohkubo, Tadashi; Takahashi, Ayako; Nambara, Toshio

CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan

SO Journal of Steroid Biochemistry (1990), 36(5), 501-3

CODEN: JSTBBK; ISSN: 0022-4731

DT Journal

LA English

CC 2-4 (Mammalian Hormones)

AB In vitro glucuronidation of 2-hydroxyestriol has been investigated by HPLC with dual-electrode coulometric detection. When incubated with a rat or dog liver microsomal preparation in the presence of UDP glucuronic acid, 2-hydroxyestriol was transformed into the 2-glucuronide together with a small amount of 16- and/or 17-glucuronides. In contrast, incubation of 2-hydroxyestriol with guinea pig liver microsomal preparation yielded the 3-glucuronide and a trace amount of the 2-glucuronide, but no ring D glucuronides. Upon pretreatment with 3-methylcholanthrene, male rat liver exhibited a marked increase in both 2- and 3-glucuronidation activities, whereas female rat liver showed an elevation only in 2-glucuronidation. In both male and female rats, pretreatment with phenobarbital caused a relatively small increase in the glucuronidation activity of the liver. In the male guinea pig, glucuronidation was not affected by pretreatment with either of the two compds. This demonstrated the multiplicity of hepatic 2-hydroxyestriol UDP-glucuronyltransferase in the rat, guinea pig, and dog.

ST hydroxyestriol glucuronidation; UDP glucuronyltransferase catechol  
estrogen

IT Sex

(hydroxyestriol glucuronidation by liver in relation to)

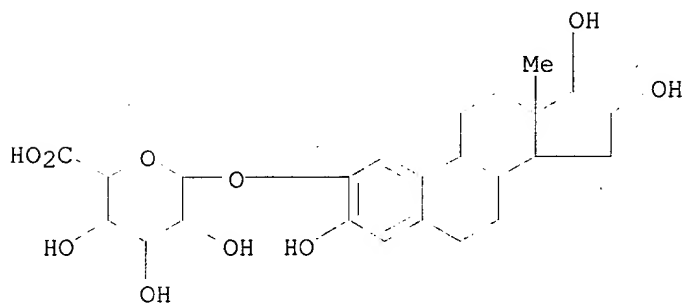
IT Liver, metabolism

(hydroxyestriol glucuronidation by, sex and species variations in)

IT 55349-22-9 125529-46-6, 2-Hydroxyestriol 3-monoglucuronide



125529-47-7, 2-Hydroxyestriol 16-monoglucuronide 125529-48-8,  
 2-Hydroxyestriol 17-monoglucuronide  
 RL: FORM (Formation, nonpreparative)  
 (formation of, from 2-hydroxyestriol by liver, sex and species  
 variations in)  
 IT 1232-80-0, 2-Hydroxyestriol  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (glucuronidation of, by liver, sex and species variations in)  
 IT 130731-17-8  
 RL: BIOL (Biological study)  
 (of liver, sex and species variations in)  
 IT 55349-22-9  
 RL: FORM (Formation, nonpreparative)  
 (formation of, from 2-hydroxyestriol by liver, sex and species  
 variations in)  
 RN 55349-22-9 HCAPLUS  
 CN  $\beta$ -D-Glucopyranosiduronic acid, (16 $\alpha$ ,17 $\beta$ )-3,16,17-  
 trihydroxyestra-1,3,5(10)-trien-2-yl (9CI) (CA INDEX NAME)



L31 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1990:112186 HCAPLUS  
 DN 112:112186  
 ED Entered STN: 31 Mar 1990  
 TI Studies on steroids. CCXXXXVI. Separation of isomeric 2-hydroxyestriol  
 monoglucuronides and monosulfates by high-performance liquid  
 chromatography with dual-electrode coulometric detection  
 AU Ohkubo, Tadashi; Wakasawa, Tatsuyoshi; Shimada, Kazutake; Nambara, Toshio  
 CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan  
 SO Journal of Liquid Chromatography (1989), 12(11), 2093-102  
 CODEN: JLCHD8; ISSN: 0148-3919  
 DT Journal  
 LA English  
 CC 2-1 (Mammalian Hormones)  
 AB Separation and selective detection of 2-hydroxyestriol monoglucuronides and  
 monosulfates by HPLC with electrochem. detection on a reversed-phase  
 column were carried out. The effects of composition and pH of mobile phase on  
 the capacity factor were investigated with a Develosil ODS-5 column. Four  
 isomeric monoglucuronides of 2-hydroxyestriol appeared to be separable on  
 this column when 0.5% NaOAc/MeCN was used as a mobile phase. However,  
 2-hydroxyestriol 2-glucuronide and 16-glucuronide were not satisfactorily  
 resolved. In order to differentiate these 2, the use of a dual-electrode  
 coulometric detector was attempted. 2-Hydroxyestriol ring D glucuronides  
 were selectively detected at the 1st electrode (+0.3 V), while the  
 isomeric ring A glucuronides were detected at the 2nd electrode (+0.9 V).  
 The separation of 4 isomeric monosulfates was similarly attained on a  
 $\mu$ -Bondasphere-NH2 column with a 0.1% KH2PO4-THF-MeCN mobile phase.  
 ST hydroxyestriol glucuronide sulfate chromatog; HPLC hydroxyestriol  
 glucuronide sulfate isomer

IT Chromatography, column and liquid  
(high-performance, dual electrode coulometry combined with, of  
hydroxyestriol monoglucuronide and monosulfate isomers)

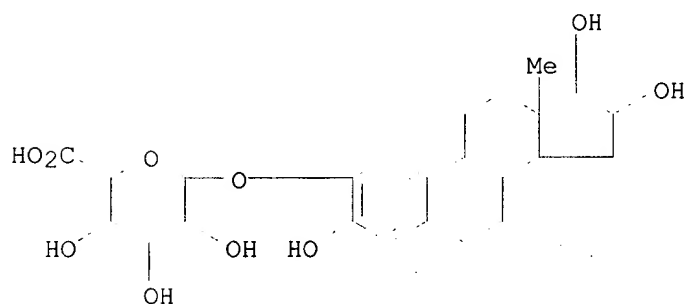
IT 55349-18-3, 2-Hydroxyestriol 2-monosulfate **55349-22-9**  
82356-49-8, 2-Hydroxyestriol 3-monosulfate 125529-46-6, 2-Hydroxyestriol  
3-monoglucuronide 125529-47-7, 2-Hydroxyestriol 16-monoglucuronide  
125529-48-8, 2-Hydroxyestriol 17-monoglucuronide 125529-49-9,  
2-Hydroxyestriol 17-sulfate 125549-03-3, 2-Hydroxyestriol 16-sulfate  
RL: BIOL (Biological study)  
(chromatog. separation of, from isomers by HPLC and dual electrode  
coulometry)

IT 1232-80-0D, 2-Hydroxyestriol, monoglucuronides and monosulfates  
RL: BIOL (Biological study)  
(isomers, chromatog. separation of, with HPLC and dual electrode coulometry)

IT **55349-22-9**  
RL: BIOL (Biological study)  
(chromatog. separation of, from isomers by HPLC and dual electrode  
coulometry)

RN 55349-22-9 HCAPLUS

CN  $\beta$ -D-Glucopyranosiduronic acid, (16 $\alpha$ ,17 $\beta$ )-3,16,17-  
trihydroxyestra-1,3,5(10)-trien-2-yl (9CI) (CA INDEX NAME)



L31 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1989:633337 HCAPLUS

DN 111:233337

ED Entered STN: 23 Dec 1989

TI Formylation of estrogens

AU Pert, Derek J.; Ridley, Damon D.

CS Dep. Org. Chem., Univ. Sydney, Sydney, 2006, Australia

SO Australian Journal of Chemistry (1989), 42(3), 405-19  
CODEN: AJCHAS; ISSN: 0004-9425

DT Journal

LA English

CC 32-3 (Steroids)

OS CASREACT 111:233337

AB Reimer-Tiemann formylations of estradiol and estrone were investigated and, while substitution was effected under certain conditions to give mixts. of 2- and 4-formyl estrogens, yields were very low and the method was unsuitable for preparative purposes. Regioselective methods were developed and 2-formylestradiol was conveniently prepared from estradiol by formylation of the lithio derivative of the bis(methoxymethyl) ether and removal of the protecting groups with HCl. 4-Formylestradiol was prepared by lithiation of the methoxyethyl ether of 4-bromoestradiol, formylation with HCONMePh, and removal of the protecting group. A number of related derivs., including 2-formylestriol, were prepared

ST formylation estrogen; estradiol formylation; estrone formylation

IT Estrogens  
RL: RCT (Reactant); RACT (Reactant or reagent)

(formylation of)

IT Formylation  
(of estrogens)

IT 53-16-7, Estrone, reactions  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(Reimer-Tiemann formylation of)

IT 113680-59-4  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(attempted metalation-formylation of)

IT 50-27-1 113680-55-0  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(formylation of)

IT 1630-83-7  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(methoxyalkylation of)

IT 123715-92-4P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and deacetylation of)

IT 123715-82-2P 123715-83-3P 123715-90-2P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and formylation of)

IT 123715-80-0P 123715-91-3P 123746-55-4P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and hydrolysis of)

IT 99503-86-3P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and reduction of, with Raney nickel)

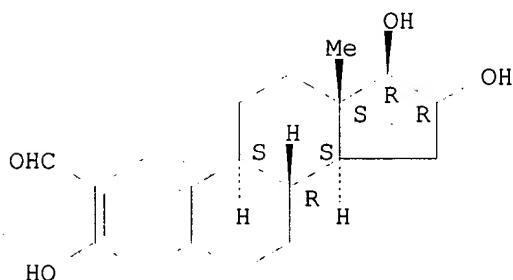
IT 6599-97-9P 13879-55-5P 13879-56-6P 123715-79-7P 123715-81-1P  
123715-84-4P 123715-85-5P 123715-86-6P **123715-87-7P**  
123715-88-8P 123715-89-9P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

IT **123715-87-7P**  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 123715-87-7 HCAPLUS

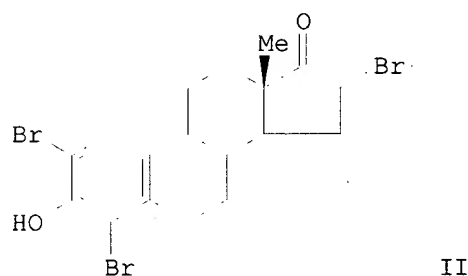
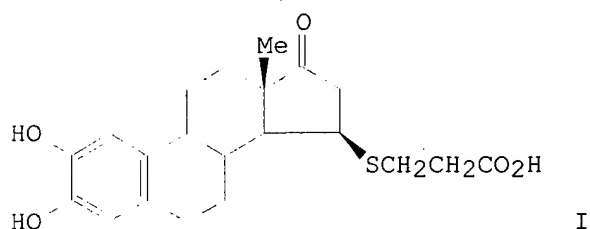
CN Estr-1,3,5(10)-triene-2-carboxaldehyde, 3,16,17-trihydroxy-,  
(16 $\alpha$ ,17 $\beta$ )- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L31 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN  
AN 1989:154664 HCAPLUS  
DN 110:154664  
ED Entered STN: 30 Apr 1989  
TI Studies on steroids. Part CCXXXIX. Preparation and antigenic properties

of 2-hydroxyestrone-[C-15]-bovine serum albumin conjugate  
 AU Okubo, Tadashi; Tsuchiko, Fumiko; Wakasawa, Tatsuyoshi; Nambara, Toshio  
 CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan  
 SO Chemical & Pharmaceutical Bulletin (1988), 36(9), 3519-24  
 CODEN: CPBTAL; ISSN: 0009-2363  
 DT Journal  
 LA English  
 CC 32-3 (Steroids)  
 Section cross-reference(s): 6, 15  
 OS CASREACT 110:154664  
 GI



AB A new hapten-carrier conjugate was prepared from 15β-(2-carboxyethylthio)-2-hydroxyestrone (I) by coupling to bovine serum albumin employing the mixed anhydride technique. The specificity of anti-2-hydroxyestrone antiserum elicited in rabbits by immunization with this antigen was assessed by cross-reaction studies with related steroids in the RIA procedure and the results are discussed from the structural point of view. I was prepared from tribromoestrone II in several steps.

ST hydroxyestrone serum albumin conjugate prepn antigen; estrone hydroxy serum albumin conjugate

IT Haptens  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 ((carboxyethylthio)hydroxyestrone as)

IT Antigens  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (hydroxyestrone bovine serum albumin conjugate as)

IT Molecular structure-biological activity relationship  
 (antigenic, of hydroxyestrone bovine serum albumin conjugate)

IT Albumins, compounds  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (conjugates, preparation and antigenic activity of)

IT 107-96-0  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (addition reaction of, with estrenone derivative)

IT 50-27-1, Estriol 50-28-2, Estradiol, preparation 53-16-7, Estrone, preparation 362-05-0, 2-Hydroxyestradiol 362-06-1, 2-Hydroxyestrone 362-08-3, 2-Methoxyestrone 1035-77-4, Estradiol 3-methyl ether 1232-80-0 1474-53-9, Estriol 3-methyl ether 1624-62-0, Estrone methyl ether 3131-23-5, 4-Hydroxyestrone 5976-62-5, 4-Hydroxyestrone 3-methyl

ether 5976-63-6, 2-Hydroxyestrone 3-methyl ether 16105-81-0,  
2-Hydroxyestradiol 3-sulfate 26549-41-7, 2-Hydroxyestrone 2-glucuronide  
52745-31-0 **55349-22-9** 58562-33-7, 4-Methoxyestrone  
89289-97-4 90746-93-3, 4-Hydroxyestrone 3-glucuronide 90746-95-5,  
4-Hydroxyestradiol 4-glucuronide 90762-62-2, 4-Hydroxyestrone  
4-glucuronide

RL: RCT (Reactant); RACT (Reactant or reagent)

(cross-reactivity of, with anti-hydroxyestrone antiserum)

IT 107-21-1P, 1,2-Ethanediol, preparation

RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(cyclic ketalization by, of tribromoestrone)

IT 79258-15-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(cyclic ketalization of, with ethylene glycol)

IT 119830-38-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)

(preparation and addition reaction of, with mercaptopropionic acid)

IT 119830-41-0P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and binding of, with bovine serum albumin)

IT 119830-39-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)

(preparation and debromination of)

IT 119830-33-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)

(preparation and dehydrobromination of)

IT 119830-34-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)

(preparation and deketalization of)

IT 119830-37-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)

(preparation and oxidation of)

IT 119830-35-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)

(preparation and reaction of, with sodium nitrite)

IT 119830-36-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)

(preparation and reduction of)

IT 119830-40-9P 119830-42-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

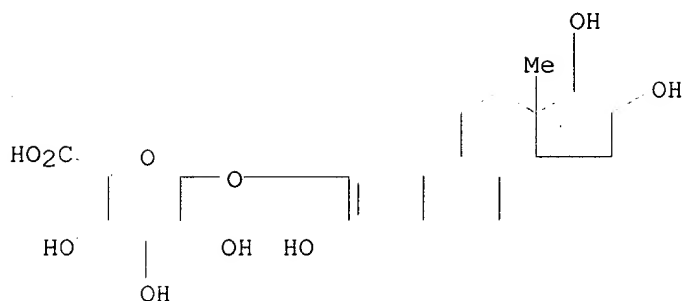
IT **55349-22-9**

RL: RCT (Reactant); RACT (Reactant or reagent)

(cross-reactivity of, with anti-hydroxyestrone antiserum)

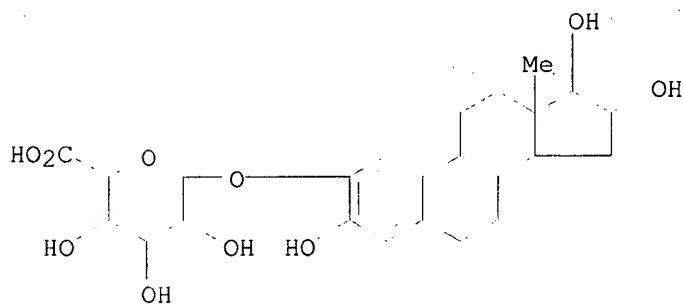
RN 55349-22-9 HCAPLUS

CN  $\beta$ -D-Glucopyranosiduronic acid, (16 $\alpha$ ,17 $\beta$ )-3,16,17-  
trihydroxyestra-1,3,5(10)-trien-2-yl (9CI) (CA INDEX NAME)



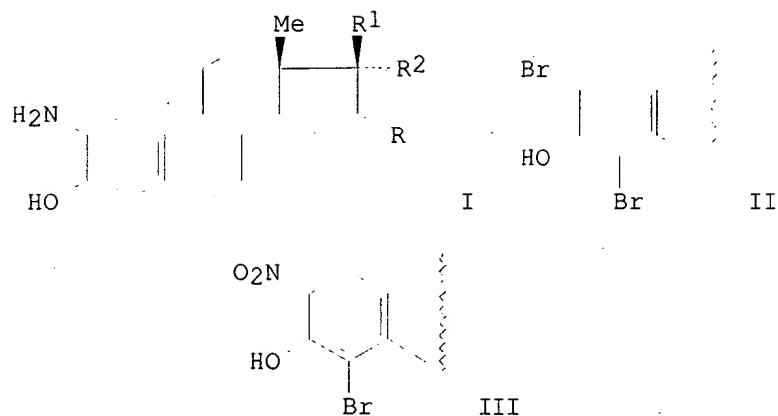
L31 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1988:529502 HCAPLUS  
 DN 109:129502  
 ED Entered STN: 14 Oct 1988  
 TI Studies on steroids. CCXXXVI. New synthesis of 2-hydroxyestrogen  
 2-monoglucuronides  
 AU Okubo, Tadashi; Tsuchiko, Fumiko; Nambara, Toshio  
 CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan  
 SO Chemical & Pharmaceutical Bulletin (1988), 36(1), 419-23  
 CODEN: CPBTAL; ISSN: 0009-2363  
 DT Journal  
 LA English  
 CC 33-3 (Carbohydrates)  
 Section cross-reference(s): 32  
 OS CASREACT 109:129502  
 AB New synthetic routes leading to catechol estrogen 2-monoglucuronides are  
 described. Thus, 4-bromo-2-hydroxyestriol 16,17-diacetate via  
 Koenigs-Knorr reaction with Me  $\alpha$ -acetobromoglucuronate in the  
 presence of CdCO<sub>3</sub> proceeded preferentially toward the C-2 hydroxyl group.  
 Subsequent reductive dehalogenation followed by alkaline hydrolysis gave the  
 desired 2-hydroxyestriol 2-glucuronide. Similarly, 2-hydroxyestradiol and  
 2-hydroxyestrone 2-glucuronides were prepared  
 ST estratriene glucuronide  
 IT 805-26-5  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (bromination of)  
 IT 88623-44-3  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (periodate oxidation of)  
 IT 116382-70-8P 116382-71-9P 116436-60-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and enzymic hydrolysis of)  
 IT 116382-64-0P 116382-67-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and hydrogenolysis of)  
 IT 27736-76-1P 53048-13-8P **116408-03-8P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and methylation of)  
 IT 116382-62-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and periodate oxidation of)  
 IT 116382-63-9P 116382-66-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)

(preparation and reaction with glucuronate derivative)  
 IT 116382-60-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and reaction with sodium nitrite)  
 IT 53048-12-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and reactions of)  
 IT 116382-61-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and reduction of)  
 IT 116382-65-1P 116382-68-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and saponification of)  
 IT 5976-63-6P 5976-65-8P 28818-82-8P 116382-69-5P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 IT 21085-72-3  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with steroids)  
 IT **116408-03-8P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and methylation of)  
 RN 116408-03-8 HCAPLUS  
 CN  $\beta$ -D-Glucopyranosiduronic acid, (16 $\alpha$ ,17 $\beta$ )-3,16,17-  
 trihydroxyestra-1,3,5(10)-trien-2-yl, monosodium salt (9CI) (CA INDEX  
 NAME)



L31 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1984:68583 HCAPLUS  
 DN 100:68583  
 ED Entered STN: 12 May 1984  
 TI Novel and regiospecific synthesis of 2-amino estrogens via Zincke  
 nitration  
 AU Numazawa, Mitsuteru; Kimura, Katsuhiko  
 CS Tohoku Coll. Pharm., Sendai, 983, Japan  
 SO Steroids (1983), 41(5), 675-82  
 CODEN: STEDAM; ISSN: 0039-128X  
 DT Journal  
 LA English

CC 32-3 (Steroids)  
GI

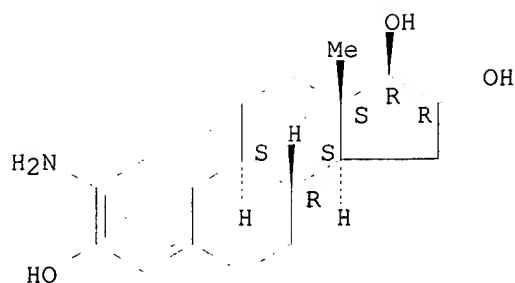


AB Aminoestrogens I (R = H, HO; R<sup>1</sup> = HO, R<sup>2</sup> = H; R<sup>1</sup>R<sup>2</sup> = O) were prepared  
Dibromoestrogens II were regiospecifically converted to the  
2-nitro-4-bromo derivative III in quant. yields with Zincke nitration using  
sodium nitrite. Catalytic hydrogenation of III over Pd/C gave directly  
the desired 2-amino estrogens in high yields. I (R = H, HO; R<sup>1</sup> = HO, R<sup>2</sup> =  
H) were also obtained by reduction of the corresponding 2-nitro-4-bromides  
with NaBH<sub>4</sub> in the presence of PdCl<sub>2</sub>.

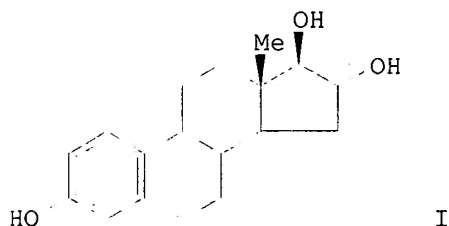
ST amino estrogen; Zincke nitration regiochem bromoestrogen  
IT Regiochemistry  
(of Zincke nitration, of dibromo estrogens)  
IT 19-Norsteroids  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(regioselective Zincke nitration of dibromo estrogens)  
IT Nitration  
(Zincke, regioselective, of dibromo estrogens)  
IT 25975-57-9P 88623-41-0P 88623-42-1P 88623-43-2P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and reduction of)  
IT 6301-87-7P 14984-43-1P 88599-95-5P **88599-96-6P** 88623-44-3P  
88623-45-4P 88623-46-5P 88623-47-6P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
IT 19590-54-6 19590-55-7 60788-62-7 79258-14-3  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(regioselective Zincke nitration of)  
IT **88599-96-6P**  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 88599-96-6 HCAPLUS  
CN Estra-1,3,5(10)-triene-3,16,17-triol, 2-amino-, (16 $\alpha$ ,17 $\beta$ )-  
(9CI) (CA INDEX NAME)

Absolute stereochemistry.





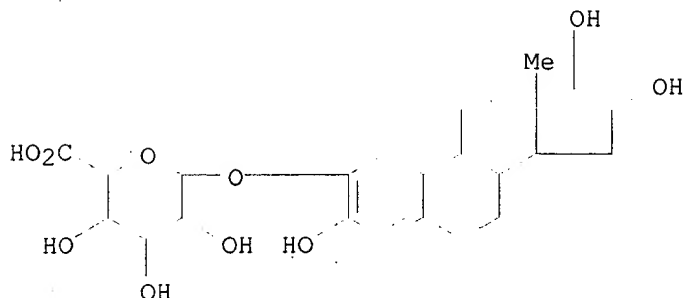
L31 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1977:463000 HCAPLUS  
 DN 87:63000  
 ED Entered STN: 12 May 1984  
 TI Studies on steroids. Part CXX. Biliary conjugated metabolites of estriol in the rat  
 AU Nambara, Toshio; Kawarada, Yoshihiko  
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
 SO Chemical & Pharmaceutical Bulletin (1977), 25(5), 942-8  
 CODEN: CPBTAL; ISSN: 0009-2363  
 DT Journal  
 LA English  
 CC 2-2 (Hormone Pharmacology)  
 Section cross-reference(s): 13  
 GI



AB The conjugated metabolites excreted in rat bile following the oral administration of a large dose of estriol (I) [50-27-1] were isolated and characterized. Eleven principal conjugates were separated by chromatog. on Amberlite XAD-2 resin, followed by gel filtration on Sephadex LH-20 and partition chromatog. on silica gel. The structures of these metabolites were deduced from the physico-chemical data and definitely characterized by preparing their derivs. and comparing them with synthetic specimens. The physiol. significance of biotransformation is discussed.  
 ST estriol bile conjugate metabolite  
 IT Bile  
 (estriol conjugated metabolites of)  
 IT 1852-50-2 2479-91-6 7219-89-8 17120-96-6 55349-17-2 55349-18-3  
 55349-19-4 55349-20-7 55349-21-8 55349-22-9 55349-23-0  
 RL: FORM (Formation, nonpreparative)  
 (formation of, from estriol)  
 IT 50-27-1  
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)  
 (metabolism of)  
 IT 55349-22-9  
 RL: FORM (Formation, nonpreparative)

(formation of, from estriol)

RN 55349-22-9 HCAPLUS

CN  $\beta$ -D-Glucopyranosiduronic acid, (16 $\alpha$ ,17 $\beta$ )-3,16,17-trihydroxyestra-1,3,5(10)-trien-2-yl (9CI) (CA INDEX NAME)

L31 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1975:453697 HCAPLUS

DN 83:53697

ED Entered STN: 12 May 1984

TI Conjugated metabolites of estriol in rat bile

AU Nambara, Toshio; Kawarada, Yoshihiko

CS Pharm. Inst., Tohoku Univ., Sendai, Japan

SO Chemical &amp; Pharmaceutical Bulletin (1975), 23(3), 698-700

CODEN: CPBTAL; ISSN: 0009-2363

DT Journal

LA English

CC 2-2 (Hormone Pharmacology)

Section cross-reference(s): 13

GI For diagram(s), see printed CA Issue.

AB After oral administration of 50 mg of estriol (I) [50-27-1] to the rat, 11 principal conjugates were separated from the bile. The structures of these metabolites were deduced from the physicochem. data and definitely characterized by direct comparison with the synthetic specimens. The significance of the biotransformations observed is discussed.

ST estriol metabolite bile

IT Bile

(estriol metabolites of)

IT 1852-50-2 2479-91-6 7219-89-8 17120-96-6 55349-17-2 55349-18-3

55349-19-4 55349-20-7 55349-21-8 55349-22-9 55349-23-0

RL: FORM (Formation, nonpreparative)

(formation of, from estriol)

IT 50-27-1

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(metabolism of)

IT 55349-22-9

RL: FORM (Formation, nonpreparative)

(formation of, from estriol)

RN 55349-22-9 HCAPLUS

CN  $\beta$ -D-Glucopyranosiduronic acid, (16 $\alpha$ ,17 $\beta$ )-3,16,17-trihydroxyestra-1,3,5(10)-trien-2-yl (9CI) (CA INDEX NAME)

09779331

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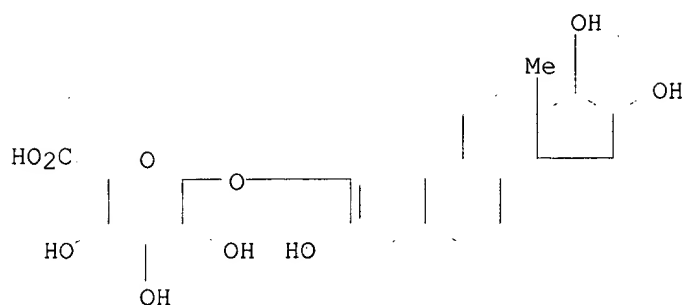
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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	Jun 03	New e-mail delivery for search results now available
NEWS	4	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	5	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	6	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	7	Sep 03	JAPIO has been reloaded and enhanced
NEWS	8	Sep 16	Experimental properties added to the REGISTRY file
NEWS	9	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	10	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	11	Oct 24	BEILSTEIN adds new search fields
NEWS	12	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	13	Nov 18	DKILIT has been renamed APOLLIT
NEWS	14	Nov 25	More calculated properties added to REGISTRY
NEWS	15	Dec 04	CSA files on STN
NEWS	16	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	17	Dec 17	TOXCENTER enhanced with additional content
NEWS	18	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	19	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS	20	Feb 13	CANCERLIT is no longer being updated
NEWS	21	Feb 24	METADEX enhancements
NEWS	22	Feb 24	PCTGEN now available on STN
NEWS	23	Feb 24	TEMA now available on STN
NEWS	24	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS	25	Feb 26	PCTFULL now contains images
NEWS	26	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS	27	Mar 20	EVENTLINE will be removed from STN
NEWS	28	Mar 24	PATDPAFULL now available on STN
NEWS	29	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS	30	Apr 11	Display formats in DGENE enhanced
NEWS	31	Apr 14	MEDLINE Reload
NEWS	32	Apr 17	Polymer searching in REGISTRY enhanced
NEWS	33	Jun 13	Indexing from 1947 to 1956 added to records in CA/CAPLUS
NEWS	34	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS	35	Apr 28	RDISCLOSURE now available on STN
NEWS	36	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS	37	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS	38	May 15	Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS	39	May 16	CHEMREACT will be removed from STN



=> d his

(FILE 'HOME' ENTERED AT 11:00:14 ON 21 DEC 2003)  
SET COST OFF

FILE 'REGISTRY' ENTERED AT 11:00:25 ON 21 DEC 2003

L1 STR  
L2 42 S L1 CSS SAM  
L3 949 S L1 CSS FUL  
SAV L3 QAZI779/A  
L4 STR L1  
L5 448 S L4 CSS FUL SUB=L3  
SAV L5 QAZI779A/A  
L6 501 S L3 NOT L5  
L7 STR L1  
L8 25 S L7 CSS FUL SUB=L6  
SAV L8 QAZI779B/A  
L9 476 S L6 NOT L8  
L10 STR L7  
L11 0 S L10 CSS SAM SUB=L9  
L12 0 S L10 SAM SUB=L9  
L13 5 S L10 FUL SUB=L9  
SAV L13 QAZI779C/A  
L14 STR L10  
L15 0 S L14 SAM SUB=L9  
L16 3 S L14 FUL SUB=L9  
SAV L16 QAZI779D/A

FILE 'HCAOLD' ENTERED AT 11:19:10 ON 21 DEC 2003

L17 0 S L16

FILE 'HCAPLUS' ENTERED AT 11:19:12 ON 21 DEC 2003

L18 3 S L16

FILE 'USPATFULL, USPAT2' ENTERED AT 11:19:24 ON 21 DEC 2003

L19 1 S L16

FILE 'HCAPLUS' ENTERED AT 11:19:36 ON 21 DEC 2003

L20 5842 S L6  
L21 5811 S L9  
L22 16 S L20,L21 AND (AGOSTON ? OR PRIBLUDA ? OR TRESTON ? OR GREEN ?)  
L23 2 S L20,L21 AND ENTREMED?/PA,CS  
L24 16 S L22,L23  
SEL HIT RN

FILE 'REGISTRY' ENTERED AT 11:21:45 ON 21 DEC 2003

L25 23 S E1-E23

L26 15 S L25 AND METHOXY  
L27 8 S L25 NOT L26

FILE 'REGISTRY' ENTERED AT 11:25:32 ON 21 DEC 2003

L28 FILE 'HCAOLD' ENTERED AT 11:26:04 ON 21 DEC 2003  
0 S L13

L29 FILE 'USPATFULL, USPAT2' ENTERED AT 11:26:14 ON 21 DEC 2003  
0 S L13

L30 FILE 'HCAPLUS' ENTERED AT 11:26:18 ON 21 DEC 2003  
8 S L13  
L31 11 S L30, L18

FILE 'USPATFULL, USPAT2' ENTERED AT 11:26:30 ON 21 DEC 2003

FILE 'HCAPLUS' ENTERED AT 11:26:39 ON 21 DEC 2003

=>

3/8 - (C) FILE HCAPLUS

STN CA Caesar accession number : 1600

XP-002186128

AN - 1990:152537 HCAPLUS ✓

DN - 112:152537

TI - Kits for RIA of catechol estrogens for breast cancer diagnosis

IN - Kubodera, Akiko

PA - Research Development Corp. of Japan, Japan

SO - Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT - Patent

LA - Japanese

FAN.CNT 1

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MAY 28 2002

TECH CENTER 1600/2900

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PN - JP63090763 ✓	A	19880421	JP 1986-235647	19861003
JP2517561B	B	19960724		

OS - MARPAT 112:152537

AB - A kit for immunoassay of catechol estrogens consists of antibodies to I (A = :NO, O2C; n = 1-4; R = protein residue; R1, R2 = H, OH) and labeled catechol estrogens. 2,3-Dihydroxyestra-1,3,5(10)-trien-17-one was treated with carboxymethylhydroxylamine-HCl to give 2-hydroxyestrone-17-(o-carboxymethyl)oxium, which was bound to bovine serum albumin for use in antibody (antiserum) prodn. A kit for 2-hydroxyestrone detn. consisted of this antibody and 2-hydroxyestrone-3H.

GI -

[000000018]

IT \*\*\*120858-24-4\*\*\*

RL: BIOL (Biological study)

(RIA kit contg., for catechol estrogen detn.)

RN 120858-24-4 HCAPLUS

CN Estra-1,3,5(10)-triene-2,3,4-triol, labeled with tritium (9CI) (CA INDEX NAME)

Absolute stereochemistry.

[000000019]

IT \*\*\*120858-21-1\*\*\* , Estra-1,3,5(10)-triene-2,3,4-triol

RL: ANT (Analyte); ANST (Analytical study)

(detn. of, RIA kit for)

RN 120858-21-1 HCAPLUS

CN Estra-1,3,5(10)-triene-2,3,4-triol (9CI) (CA INDEX NAME)

Absolute stereochemistry.

[000000020]

4/5/1

DIALOG(R) File 399:CA SEARCH(R)

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109110741 CA: 109(13)110741u PATENT

11.beta.-(4-Isopropenylphenyl)estra-4,9-dienes, procedure for their preparation, pharmaceutical preparations containing them, and their use as antigestagens

INVENTOR(AUTHOR): Ottow, Eckhard; Wiechert, Rudolf; Neef, Guenter; Beier, Sybille; Elger, Walter; Henderson, David

LOCATION: Fed. Rep. Ger.

ASSIGNEE: Schering A.-G.

PATENT: Germany Offen. ; DE 3625315 A1 DATE: 880128

APPLICATION: DE 3625315 (860725)

PAGES: 5 pp. CODEN: GWXXBX LANGUAGE: German CLASS: C07J-001/00A; C07C-041/00B; A61K-031/565B; A61K-031/57B; A61K-031/575B

SECTION:

CA232003 Steroids

CA202XXX Mammalian Hormones

IDENTIFIERS: progesterone antagonist estradiene prepn, antigestagen estradiene prepn

DESCRIPTORS:

Progestogens...

inhibitors, estradiene derivs.

Steroids, preparation...

prepn. of estradienes as antigestagens

CAS REGISTRY NUMBERS:

57-83-0 biological studies, antagonists to, estradiene derivs. as

93697-60-0 Grignard reaction of, with bromoisopropenylbenzene

6888-79-5 Grignard reaction of, with epoxyestrenol deriv.

116196-34-0P 116229-17-5P prepn. and reaction of, in synthesis of antigestagenic estradiene deriv.

116196-21-5P 116196-22-6P 116196-23-7P 116196-24-8P 116196-25-9P

116196-26-0P 116196-27-1P 116196-28-2P 116196-29-3P 116196-30-6P

116196-31-7P 116196-32-8P prepn. of, as antigestagen

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DIALOG(R) File 399:CA SEARCH(R)

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74010081 CA: 74(3)10081u JOURNAL

Orally active long-acting estrogen (AY-20,121)

(3-(2-propynyloxy)-estra-1,3,5(10)-trien-17.beta.-ol trimethylacetate)

AUTHOR(S): Banik, Upendra K.; Revesz, Clara; Herr, Ferenc

LOCATION: Ayerst Res. Lab., Montreal, Que.

JOURNAL: Steroids DATE: 1970 VOLUME: 16 NUMBER: 3 PAGES: 289-96

CODEN: STEDAM LANGUAGE: English

SECTION:

CA804000 Hormones and Related Substances

IDENTIFIERS: estrogens synthetic, contraceptives steroids

DESCRIPTORS:

Estrogenic hormones...

(propynyloxy)estratrienol trimethylacetate

Vagina...

(propynyloxy)estratrienol trimethylacetate effect on epithelium of

CAS REGISTRY NUMBERS:

57-63-6 152-43-2 biol. activity of, (propynyloxy)estratrienol  
trimethylacetate in relation to

28002-65-5 estrogenic hormone



8/5/8

DIALOG(R) File 399:CA SEARCH(R)

(c) 1998 American Chemical Society. All rts. reserv.

73056310 CA: 73(11)56310a PATENT

Rodenticidal 3-(2-propynyloxy)-estra-1,3,5(10)-trien-17.beta.-ol pivalate

INVENTOR(AUTHOR): Kruger, Gunther

ASSIGNEE: American Home Products Corp.

PATENT: United States US 3496272 DATE: 700217

APPLICATION: United States DATE: 680123

PAGES: 3 pp. CODEN: USXXAM CLASS: 424-238; A 01n

SECTION:

CA832000 Steroids

IDENTIFIERS: rodenticidal propynyloxy estratrienols

DESCRIPTORS:

19-Norsteroids...

17-hydroxy-3-(2-propynyloxy) pivalate

CAS REGISTRY NUMBERS:

24099-40-9P 24894-50-6P 28002-65-5P 28151-61-3P 28275-48-1P  
28275-49-2P 28275-50-5P 28425-85-6P prepn. of

8/5/9

DIALOG(R)File 399:CA SEARCH(R)

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72032135 CA: 72(7)32135a PATENT

3-Alkoxy-17.alpha.-propynylestra-1,3,5(10)-trien-17.beta.-ols

✓INVENTOR(AUTHOR): Galantay, Eugene E.

ASSIGNEE: Sandoz Ltd.

PATENT: Germany Offen. DE 1907330 DATE: 691023

APPLICATION: United States DATE: 680219

PAGES: 20 pp. CODEN: GWXXBX CLASS: C 07c; A 61k

SECTION:

CA832000 Steroids

IDENTIFIERS: estratrienols propynyl

DESCRIPTORS:

19-Norsteroids...

3-alkoxy

CAS REGISTRY NUMBERS:

24640-01-5P 24640-02-6P 24640-03-7P 24640-04-8P prepn. of